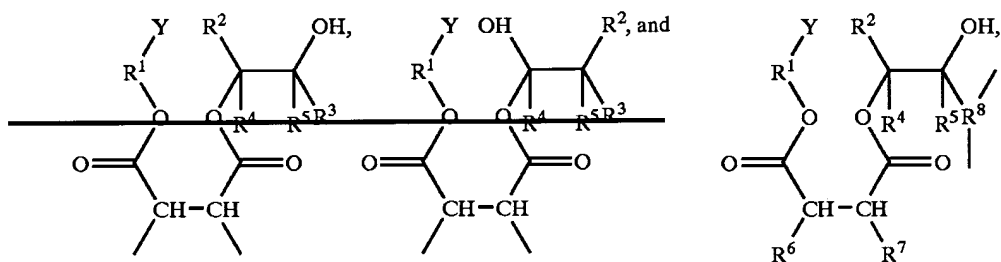


AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A coating composition comprising a vinyl polymer having a monomer unit of the formula ~~selected from the group consisting of~~



wherein Y is a carbamate or urea group, R¹ and ~~R³~~ are each independently is an alkyl groups group having from 1 to 12 carbon atoms, optionally including oxygen or other heteroatoms, R², R⁴ and R⁵ are each independently H or alkyl of 1 to 4 carbon atoms, R⁶ and R⁷ are each independently H or an alkyl group having from 1 to 12 carbon atoms or R⁶ and R⁷ together are part of a cycloaliphatic structure, optionally including oxygen or other heteroatoms in the alkyl group or cycloaliphatic structure, and R⁸ is an alkynyl group having an ethylene group in the polymer backbone.

2. (currently amended) A coating composition comprising a carbamate or terminal urea functional vinyl polymer prepared by a process comprising

(a) reacting a compound having an a hydroxyl group and a carbamate group, terminal urea group, or a group that can be converted to a carbamate or terminal urea group, with a cyclic carboxylic acid anhydride group to form a half-ester product with a free acid group; and

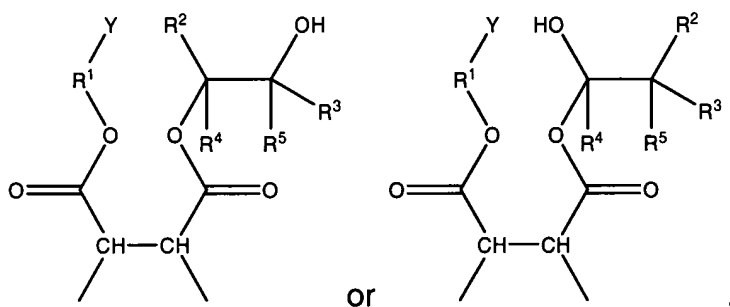
(b) reacting the free acid group with an epoxide group, wherein either

(1) one of the cyclic carboxylic acid anhydride group or the epoxide group is pendant to a vinyl polymer, with the caveat that if the cyclic carboxylic acid anhydride group is pendant then the compound having a hydroxyl group has a primary carbamate group, or

(2) one of the compound having an a hydroxyl group, a compound having the cyclic carboxylic acid anhydride group, and a compound having an epoxide group has polymerizable ethylenic unsaturation, said ethylenic unsaturation being polymerized, optionally with one or more copolymerizable monomers, to form a vinyl polymer after reaction of the compound in step (a) or step (b), with the caveat that if the compound having a hydroxyl group or the compound having the cyclic carboxylic acid anhydride group has polymerizable ethylenic unsaturation then the compound having a hydroxyl group has a primary carbamate group;

and further wherein, when the compound having an hydroxyl group has a group that can be converted to a carbamate or terminal urea group, the group is converted to the carbamate or terminal urea group after step (a).

3. (original) The coating composition of claim 2 further comprising a compound having carbamate functionality.
4. (original) The coating composition of claim 2 further comprising a crosslinker reactive with active hydrogen groups.
5. (original) A method comprising applying the coating composition of claim 4 to a substrate and curing the coating composition to form a coating.
6. (original) The method of claim 5, wherein the coating is a clearcoat, and wherein the substrate has a basecoat layer that the coating composition is applied to.
7. (new) A coating composition comprising a vinyl polymer having a monomer unit selected from the group consisting of



wherein either

Y is a secondary carbamate, R¹ is a methylene group or alkyl group having 6-12 carbon atoms, R³ is an alkyl group having from 1 to 12 carbon atoms, optionally including oxygen or other heteroatoms, and R², R⁴ and R⁵ are each independently H or alkyl of 1 to 4 carbon atoms; or

Y is a primary carbamate or urea group, R¹ and R³ are each independently alkyl groups having from 1 to 12 carbon atoms, optionally including oxygen or other heteroatoms, and R², R⁴ and R⁵ are each independently H or alkyl of 1 to 4 carbon atoms.